

10/552485

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Nakagawa, Yasuko

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 Leu Trp Glu Cys Pro Phe Asn Lys Gln Cys Leu Lys His Thr Leu Ile  
 690 695 700  
 Cys Asp Gly Phe Pro Asp Cys Pro Asp Ser Met Asp Glu Lys Asn Cys  
 705 710 715 720  
 Ser Phe Cys Gln Asp Asn Glu Leu Glu Cys Ala Asn His Glu Cys Val  
 725 730 735  
 Pro Arg Asp Leu Trp Cys Asp Gly Trp Val Asp Cys Ser Asp Ser Ser  
 740 745 750  
 Asp Glu Trp Gly Cys Val Thr Leu Ser Lys Asn Gly Asn Ser Ser Ser  
 755 760 765  
 Leu Leu Thr Val His Lys Ser Ala Lys Glu His His Val Cys Ala Asp  
 770 775 780  
 Gly Trp Arg Glu Thr Leu Ser Gln Leu Ala Cys Lys Gln Met Gly Leu  
 785 790 795 800  
 Gly Glu Pro Ser Val Thr Lys Leu Ile Pro Gly Gln Glu Gly Gln Gln  
 805 810 815  
 Trp Leu Arg Leu Tyr Pro Asn Trp Glu Asn Leu Asn Gly Ser Thr Leu  
 820 825 830  
 Gln Glu Leu Leu Val Tyr Arg His Ser Cys Pro Ser Arg Ser Glu Ile  
 835 840 845  
 Ser Leu Leu Cys Ser Lys Gln Asp Cys Gly Arg Arg Pro Ala Ala Arg  
 850 855 860  
 Met Asn Lys Arg Ile Leu Gly Gly Arg Thr Ser Arg Pro Gly Arg Trp  
 865 870 875 880  
 Pro Trp Gln Cys Ser Leu Gln Ser Glu Pro Ser Gly His Ile Cys Gly  
 885 890 895  
 Cys Val Leu Ile Ala Lys Lys Trp Val Leu Thr Val Ala His Cys Phe  
 900 905 910  
 Glu Gly Arg Glu Asp Ala Asp Val Trp Lys Val Val Phe Gly Ile Asn  
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 930 935 940  
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 945 950 955 960  
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 965 970 975  
 Pro Val Cys Leu Pro Ser Pro Glu Glu Tyr Leu Glu Pro Asp Thr Tyr  
 980 985 990  
 Cys Tyr Ile Thr Gly Trp Gly His Met Gly Asn Lys Met Pro Phe Lys  
 995 1000 1005  
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 Glu Ser Gly Thr Val Asp Ser Cys Met Gly Asp Ser Gly Gly Pro Leu  
 1045 1050 1055  
 Val Cys Glu Arg Pro Gly Gly Gln Trp Thr Leu Phe Gly Leu Thr Ser  
 1060 1065 1070  
 Trp Gly Ser Val Cys Phe Ser Lys Val Leu Gly Pro Gly Val Tyr Ser  
 1075 1080 1085  
 Asn Val Ser Tyr Phe Val Gly Trp Ile Glu Arg Gln Ile Tyr Ile Gln  
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Thr Phe Leu Gln Lys Lys Ser Gln Gly  
1105 1110

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<212> PRT  
<213> Homo sapiens

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Lys Cys Ile Arg Arg Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Glu  
35 40 45  
Asp Asp Ser Asp Glu Gln Asp Cys Pro Pro Arg Glu Cys Glu Glu Asp  
50 55 60  
Glu Phe Pro Cys Gln Asn Gly Tyr Cys Ile Arg Ser Leu Trp His Cys  
65 70 75 80  
Asp Gly Asp Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Cys Asp Met  
85 90 95  
Arg Lys Cys Ser Asp Lys Glu Phe Arg Cys Ser Asp Gly Ser Cys Ile  
100 105 110  
Ala Glu His Trp Tyr Cys Asp Gly Asp Thr Asp Cys Lys Asp Gly Ser  
115 120 125  
Asp Glu Glu Asn Cys Pro Ser Ala Val Pro Ala Pro Pro Cys Asn Leu  
130 135 140  
Glu Glu Phe Gln Cys Ala Tyr Gly Arg Cys Ile Leu Asp Ile Tyr His  
145 150 155 160  
Cys Asp Gly Asp Asp Cys Gly Asp Trp Ser Asp Glu Ser Asp Cys  
165 170 175  
Cys Glu Tyr Ser Gly Gln Leu Gly Ala Ser His Gln Pro Cys Arg Ser  
180 185 190  
Gly Glu Phe Met Cys Asp Ser Gly Leu Cys Ile Asn Ala Gly Trp Arg  
195 200 205  
Cys Asp Gly Asp Ala Asp Cys Asp Asp Gln Ser Asp Glu Arg Asn Cys  
210 215 220  
Lys Gln Phe Arg Cys His Ser Gly Arg Cys Val Arg Leu Ser Trp Arg  
225 230 235 240  
Cys Asp Gly Glu Asp Asp Cys Ala Asp Asn Ser Asp Glu Glu Asn Cys  
245 250 255  
Glu Asn Thr Gly Ser Pro Gln Cys Ala Leu Asp Gln Phe Leu Cys Trp  
260 265 270  
Asn Gly Arg Cys Ile Gly Gln Arg Lys Leu Cys Asn Gly Val Asn Asp  
275 280 285  
Cys Gly Asp Asn Ser Asp Glu Ser Pro Gln Gln Asn Cys Arg Pro Arg  
290 295 300  
Thr Gly Glu Glu Asn Cys Asn Val Asn Asn Gly Gly Cys Ala Gln Lys  
305 310 315 320  
Cys Gln Met Val Arg Gly Ala Val Gln Cys Thr Cys His Thr Gly Tyr  
325 330 335  
Arg Leu Thr Glu Asp Gly His Thr Cys Gln Asp Val Asn Glu Cys Ala  
340 345 350  
Glu Glu Gly Tyr Cys Ser Gln Gly Cys Thr Asn Ser Glu Gly Ala Phe  
355 360 365  
Gln Cys Trp Cys Glu Thr Gly Tyr Glu Leu Arg Pro Asp Arg Arg Ser  
370 375 380  
Cys Lys Ala Leu Gly Pro Glu Pro Val Leu Leu Phe Ala Asn Arg Ile  
385 390 395 400  
Asp Ile Arg Gln Val Leu Pro His Arg Ser Glu Tyr Thr Leu Leu Leu

405	410	415	
Asn Asn Leu Glu Asn Ala Ile Ala	Leu Asp Phe His His Arg Arg Glu		
420	425	430	
Leu Val Phe Trp Ser Asp Val Thr	Leu Asp Arg Ile Leu Arg Ala Asn		
435	440	445	
Leu Asn Gly Ser Asn Val Glu Glu Val Val Ser Thr	Gly Leu Glu Ser		
450	455	460	
Pro Gly Gly Leu Ala Val Asp Trp Val His	Asp Lys Leu Tyr Trp Thr		
465	470	475	480
Asp Ser Gly Thr Ser Arg Ile Glu Val Ala Asn	Leu Asp Gly Ala His		
485	490	495	
Arg Lys Val Leu Trp Gln Asn Leu Glu Lys	Pro Arg Ala Ile Ala		
500	505	510	
Leu His Pro Met Glu Gly Thr Ile Tyr Trp Thr	Asp Trp Gly Asn Thr		
515	520	525	
Pro Arg Ile Glu Ala Ser Ser Met Asp Gly Ser	Gly Arg Arg Arg Ile Ile		
530	535	540	
Ala Asp Thr His Leu Phe Trp Pro Asn Gly	Leu Thr Ile Asp Tyr Ala		
545	550	555	560
Gly Arg Arg Met Tyr Trp Val Asp Ala Lys	His His Val Ile Glu Arg		
565	570	575	
Ala Asn Leu Asp Gly Ser His Arg Lys Ala Val	Ile Ser Gln Val Phe		
580	585	590	
Glu Asp Ser Leu Tyr Trp Thr Asp Trp His Thr	Lys Ser Ile Asn Ser		
595	600	605	
Ala Asn Lys Phe Thr Gly Lys Asn Gln Glu	Ile Ile Arg Asn Lys Leu		
610	615	620	
His Phe Pro Met Asp Ile His Thr Leu His	Pro Gln Arg Gln Pro Ala		
625	630	635	640
Gly Lys Asn Arg Cys Gly Asp Asn Asn Gly	Gly Cys Thr His Leu Cys		
645	650	655	
Leu Pro Ser Gly Gln Asn Tyr Thr Cys Ala Cys	Pro Thr Gly Phe Arg		
660	665	670	
Lys Ile Ser Ser His Ala Cys Ala Gln Ser	Leu Asp Lys Phe Leu Leu		
675	680	685	
Phe Ala Arg Arg Met Asp Ile Arg Arg Ile Ser	Phe Asp Thr Glu Asp		
690	695	700	
Leu Ser Asp Asp Val Ile Pro Leu Ala Asp	Val Arg Ser Ala Val Ala		
705	710	715	720
Leu Asp Trp Asp Ser Arg Asp Asp His Val	Tyr Trp Thr Asp Val Ser		
725	730	735	
Thr Asp Thr Ile Ser Arg Ala Lys Trp Asp Gly	Thr Gly Gln Glu Val		
740	745	750	
Val Val Asp Thr Ser Leu Glu Ser Pro Ala	Gly Leu Ala Ile Asp Trp		
755	760	765	
Val Thr Asn Lys Leu Tyr Trp Thr Asp Ala	Gly Thr Asp Arg Ile Glu		
770	775	780	
Val Ala Asn Thr Asp Gly Ser Met Arg Thr	Val Leu Ile Trp Glu Asn		
785	790	795	800
Leu Asp Arg Pro Arg Asp Ile Val Val Glu	Pro Met Gly Gly Tyr Met		
805	810	815	
Tyr Trp Thr Asp Trp Gly Ala Ser Pro Lys	Ile Glu Arg Ala Gly Met		
820	825	830	
Asp Ala Ser Gly Arg Gln Val Ile Ile Ser	Ser Asn Leu Thr Trp Pro		
835	840	845	
Asn Gly Leu Ala Ile Asp Tyr Gly Ser Gln	Arg Leu Tyr Trp Ala Asp		
850	855	860	
Ala Gly Met Lys Thr Ile Glu Phe Ala Gly	Leu Asp Gly Ser Lys Arg		
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Lys Val Leu Ile Gly Ser Gln Leu Pro His	Pro Phe Gly Leu Thr Leu		
885	890	895	

Tyr Gly Glu Arg Ile Tyr Trp Thr Asp Trp Gln Thr Lys Ser Ile Gln  
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 Ser Ala Asp Arg Leu Thr Gly Leu Asp Arg Glu Thr Leu Gln Glu Asn  
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 Leu Glu Asn Leu Met Asp Ile His Val Phe His Arg Arg Arg Pro Pro  
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 Val Ser Thr Pro Cys Ala Met Glu Asn Gly Gly Cys Ser His Leu Cys  
 945 950 955 960  
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 Ile Asn Leu Leu Ser Asp Gly Lys Thr Cys Ser Pro Gly Met Asn Ser  
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 Phe Leu Ile Phe Ala Arg Arg Ile Asp Ile Arg Met Val Ser Leu Asp  
 995 1000 1005  
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 Ser Asp Ser Thr Leu His Arg Ile Ser Arg Ala Asn Leu Asp Gly Ser  
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 Gln His Glu Asp Ile Ile Thr Thr Gly Leu Gln Thr Thr Asp Gly Leu  
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 1075 1080 1085  
 Asn Arg Ile Glu Val Gly Asn Leu Asp Gly Ser Met Arg Lys Val Leu  
 1090 1095 1100  
 Val Trp Gln Asn Leu Asp Ser Pro Arg Ala Ile Val Leu Tyr His Glu  
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 Met Gly Phe Met Tyr Trp Thr Asp Trp Gly Glu Asn Ala Lys Leu Glu  
 1125 1130 1135  
 Arg Ser Gly Met Asp Gly Ser Asp Arg Ala Val Leu Ile Asn Asn Asn  
 1140 1145 1150  
 Leu Gly Trp Pro Asn Gly Leu Thr Val Asp Lys Ala Ser Ser Gln Leu  
 1155 1160 1165  
 Leu Trp Ala Asp Ala His Thr Glu Arg Ile Glu Ala Ala Asp Leu Asn  
 1170 1175 1180  
 Gly Ala Asn Arg His Thr Leu Val Ser Pro Val Gln His Pro Tyr Gly  
 1185 1190 1195 1200  
 Leu Thr Leu Leu Asp Ser Tyr Ile Tyr Trp Thr Asp Trp Gln Thr Arg  
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 1250 1255 1260  
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 1265 1270 1275 1280  
 Gly Ile Gln Leu Lys Gly Asp Gly Lys Thr Cys Asp Pro Ser Pro Glu  
 1285 1290 1295  
 Thr Tyr Leu Leu Phe Ser Ser Arg Gly Ser Ile Arg Arg Ile Ser Leu  
 1300 1305 1310  
 Asp Thr Ser Asp His Thr Asp Val His Val Pro Val Pro Glu Leu Asn  
 1315 1320 1325  
 Asn Val Ile Ser Leu Asp Tyr Asp Ser Val Asp Gly Lys Val Tyr Tyr  
 1330 1335 1340  
 Thr Asp Val Phe Leu Asp Val Ile Arg Arg Ala Asp Leu Asn Gly Ser  
 1345 1350 1355 1360  
 Asn Met Glu Thr Val Ile Gly Arg Gly Leu Lys Thr Thr Asp Gly Leu  
 1365 1370 1375  
 Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp Thr Asp Thr Gly Arg

1380	1385	1390
Asn Thr Ile Glu Ala Ser Arg Leu Asp Gly Ser Cys Arg Lys Val Leu		
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Ile Asn Asn Ser Leu Asp Glu Pro Arg Ala Ile Ala Val Phe Pro Arg		
1410	1415	1420
Lys Gly Tyr Leu Phe Trp Thr Asp Trp Gly His Ile Ala Lys Ile Glu		
1425	1430	1435
Arg Ala Asn Leu Asp Gly Ser Glu Arg Lys Val Leu Ile Asn Thr Asp		
1445	1450	1455
Leu Gly Trp Pro Asn Gly Leu Thr Leu Asp Tyr Asp Thr Arg Arg Ile		
1460	1465	1470
Tyr Trp Val Asp Ala His Leu Asp Arg Ile Glu Ser Ala Asp Leu Asn		
1475	1480	1485
Gly Lys Leu Arg Gln Val Leu Val Ser His Val Ser His Pro Phe Ala		
1490	1495	1500
Leu Thr Gln Gln Asp Arg Trp Ile Tyr Trp Thr Asp Trp Gln Thr Lys		
1505	1510	1515
Ser Ile Gln Arg Val Asp Lys Tyr Ser Gly Arg Asn Lys Glu Thr Val		
1525	1530	1535
Leu Ala Asn Val Glu Gly Leu Met Asp Ile Ile Val Val Ser Pro Gln		
1540	1545	1550
Arg Gln Thr Gly Thr Asn Ala Cys Gly Val Asn Asn Gly Gly Cys Thr		
1555	1560	1565
His Leu Cys Phe Ala Arg Ala Ser Asp Phe Val Cys Ala Cys Pro Asp		
1570	1575	1580
Glu Pro Asp Ser Arg Pro Cys Ser Leu Val Pro Gly Leu Val Pro Pro		
1585	1590	1595
Ala Pro Arg Ala Thr Gly Met Ser Glu Lys Ser Pro Val Leu Pro Asn		
1605	1610	1615
Thr Pro Pro Thr Leu Tyr Ser Ser Thr Thr Arg Thr Arg Thr Ser		
1620	1625	1630
Leu Glu Glu Val Glu Gly Arg Cys Ser Glu Arg Asp Ala Arg Leu Gly		
1635	1640	1645
Leu Cys Ala Arg Ser Asn Asp Ala Val Pro Ala Ala Pro Gly Glu Gly		
1650	1655	1660
Leu His Ile Ser Tyr Ala Ile Gly Gly Leu Leu Ser Ile Leu Leu Ile		
1665	1670	1675
Leu Val Val Ile Ala Ala Leu Met Leu Tyr Arg His Lys Lys Ser Lys		
1685	1690	1695
Phe Thr Asp Pro Gly Met Gly Asn Leu Thr Tyr Ser Asn Pro Ser Tyr		
1700	1705	1710
Arg Thr Ser Thr Gln Glu Val Lys Ile Glu Ala Ile Pro Lys Pro Ala		
1715	1720	1725
Met Tyr Asn Gln Leu Cys Tyr Lys Lys Glu Gly Pro Asp His Asn		
1730	1735	1740
Tyr Thr Lys Glu Lys Ile Lys Ile Val Glu Gly Ile Cys Leu Leu Ser		
1745	1750	1755
Gly Asp Asp Ala Glu Trp Asp Asp Leu Lys Gln Leu Arg Ser Ser Arg		
1765	1770	1775
Gly Gly Leu Leu Arg Asp His Val Cys Met Lys Thr Asp Thr Val Ser		
1780	1785	1790
Ile Gln Ala Ser Ser Gly Ser Leu Asp Asp Thr Glu Thr Glu Gln Leu		
1795	1800	1805
Leu Gln Glu Glu Gln Ser Glu Cys Ser Ser Val His Thr Ala Ala Thr		
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Pro Glu Arg Arg Gly Ser Leu Pro Asp Thr Gly Trp Lys His Glu Arg		
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<400> 6  
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<210> 11  
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<400> 12  
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<210> 28  
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